

FIG. 1A

FW ON start

h5HT4B : GTAATGGACAAACTTCATGCTAAATGTCAGTTCTCAGGAGGTTTCGGGTCAGTGAGAGGTTGGTGTCTCAGTTTCTCTCGACGGTTATCTCTGATGGCCATCTTGGGGAACTG : 117

h5HT4B : CTGGTGATGGTGGCTGTGTGCTGGGACAGGCAGCTCAGGAAAATAAAAAACAATATTTCATGTATCTCTTGTGCTTTTGGGGATCTGCTGGTTTTCGGTGTGGTGTGATGCCCTTTGGT : 234

h5HT4B : GCCATTGAGCTGGTTCAAGACATCTGGATTATTAGGGAGGTGTTTGTCTTGTTCGGACATCTCTGGACGTCTCTCACAACGGCATGATTTTTTACCTGTGTGCTGATTTCTCTG : 351

FW AB1

h5HT4B : GATAGTATTACGCCATCTCTGCTGCCAGCCTTTGGTCTATAGGAACAAGATGACCCCTCTGGCATCGCATTAATGCTGGGAGGCTGCTGGGTATCTCCACCGTTTATTTCTTTTCTC : 468

FW B1

h5HT4B : CCTATAATGCAAGGCTGGAATAACATTGGCATAATTGATTGGAAAGGAGTCTAAACCAAGGCTTGGCCAGGATTTTTCATGCCATAGAAAAGGAAAGTTCAACCAAGAACTCTTAAC : 585

FW AB3

REV B2

h5HT4B : TCTACGTACTGTGTCTTCATGCTCAACAGCCCTAGGCCATCACCCTCTGTGTGGTGGCTTTCTACATCCCATTTCTCTCATGTGTGGCTATTACCGCATCTATGTACAGCT : 702

FW AB2

h5HT4B : AAGGAGCATGCCCATCAGATCCAGATGTTTACAACGGGGAGGAGCCTCCTCCGAGAGCAGGCTCAGTGGCAGACCAGCATAGCACTCATGCGATGAGGACAGAGACCAAGCAGCC : 819

REV AB2

h5HT4B : AAGACCCCTGTGCATCATGCGTGTCTGTGGCCACCATCTTTGTCAACAAATATTGTGGATCTTTTCATAGACTACACTGTCTCCCTGGGAGGTGTGGACTGTCTTC : 936

h5HT4B : CTCTGGCTGGGCTATATCAATTCGGGTGAAACCTTTTCTTACGCCCTTTTTCGAATAAGTCTTTTAGACGTGCCCTTCTCATCATCTCTGTGTGATGATGAGCGCTACCGAAGA : 1053

h5HT4B : CCTTCCATTCTGGGCAGACTGTCCCTTGTTCACACACCAACATTAAATGGATCCACACATGTACTAAGGGATGCACTGGGAGTGTGGCCAGTGTGGAGAGTCACTGTACCCGCCCA : 1170

REV LO1

h5HT4B : GCAACTTCTGTTGGTGGCTGCTCAGGCCAGTGACACTTAGGGCCCTGGGACAAATGACCAGACAGCCATGCTCCGAAAGAGGGCCAGGTCTTAAGCTGTGCTTC- : 1281

REV 3non



2/7

h5HT4B : VMDKLDANVS8EEGFGSVEKVVLTTFLSTVILMAILGNLLVMVAVCWDRQLRKIKITNYFIVSLAFADLLVSVLVMPE : 77

h5HT4B : GAIELVQDIWIYGEVECLVRTSLDVLLTTASIFHLCCISLDRYYAICCOPLVYRNKMTPLRIALMLGGCWVIPTEIS : 154

h5HT4B : FLPIMQGWNNGIIDLERSINQGLGQDEHAIEKRRKFNQNSNSTYCVFMVNKPYAITCSVVAFYIPELLMVLAYYRIY : 231

h5HT4B : VTAKEHAHQIOMLQORAGASSESRPQSADQSHTHRMRTETKAAKTLICIIMGCFCLCWAPEFVTNIVDPFIDYTVPGQV : 308

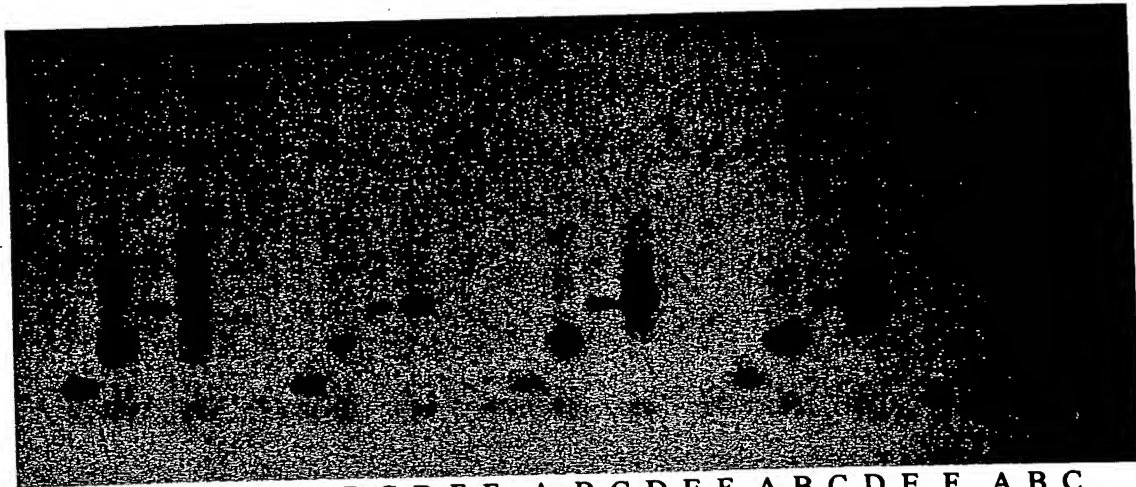
h5HT4B : WTAFELWLGYNGLNPFLYAFLNKSERRAFLLIILCCDDERYRRRPSILGQTVPCSTTTINGSTHVLRDAVECGGOWES : 385

h5HT4B : QCHPPATSPVLAAQPSDTAPGTMTOKTAMPKEGQVLSCLL : 426

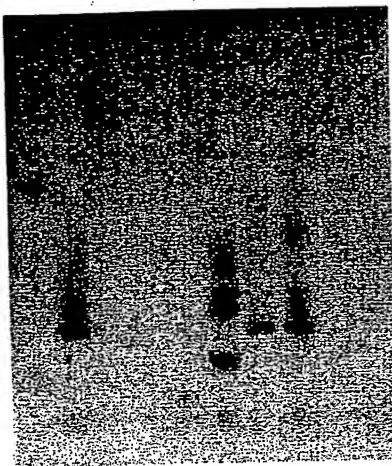
FIG. 1B



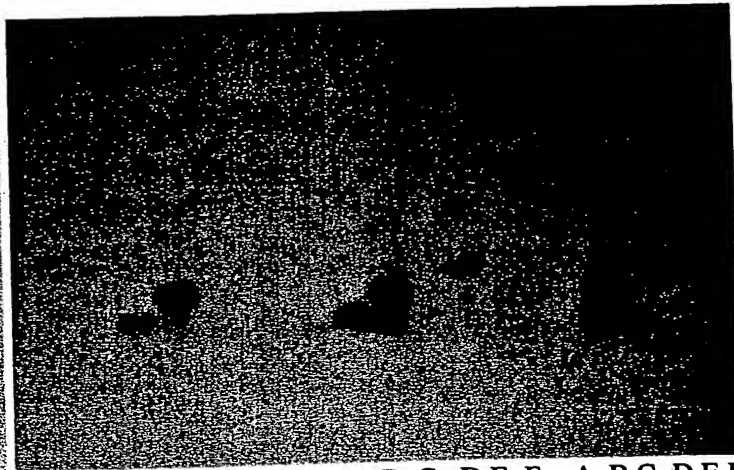
Fig. 2



A B C D E F A B C D E F A B C D E F A B C D E F A B C
stomach esophagus adrenal glands LES small intestine



D E F A B C D E F
small intestine large intestine



A B C D E F A B C D E F A B C D E F
hippocampus cerebellum striatum

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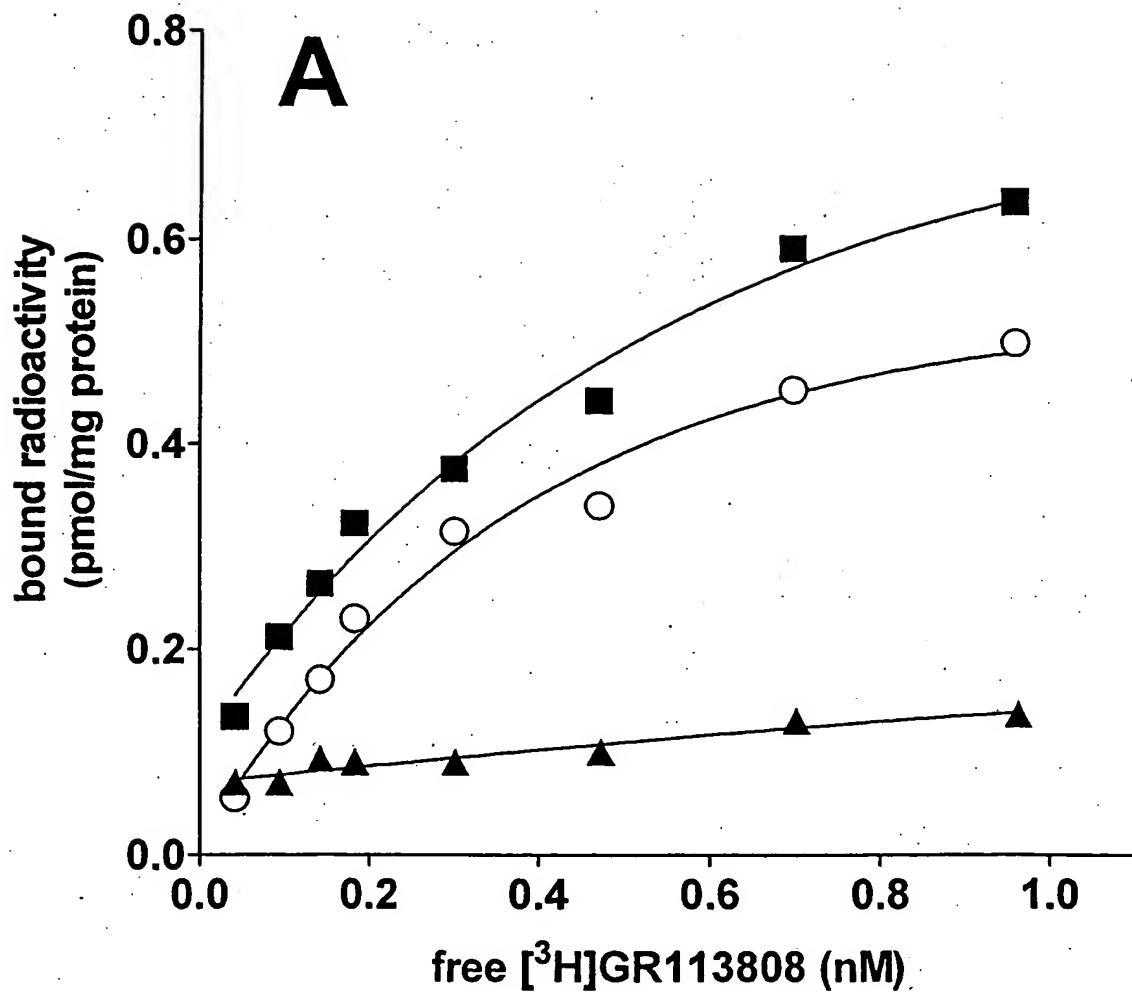


FIG. 3

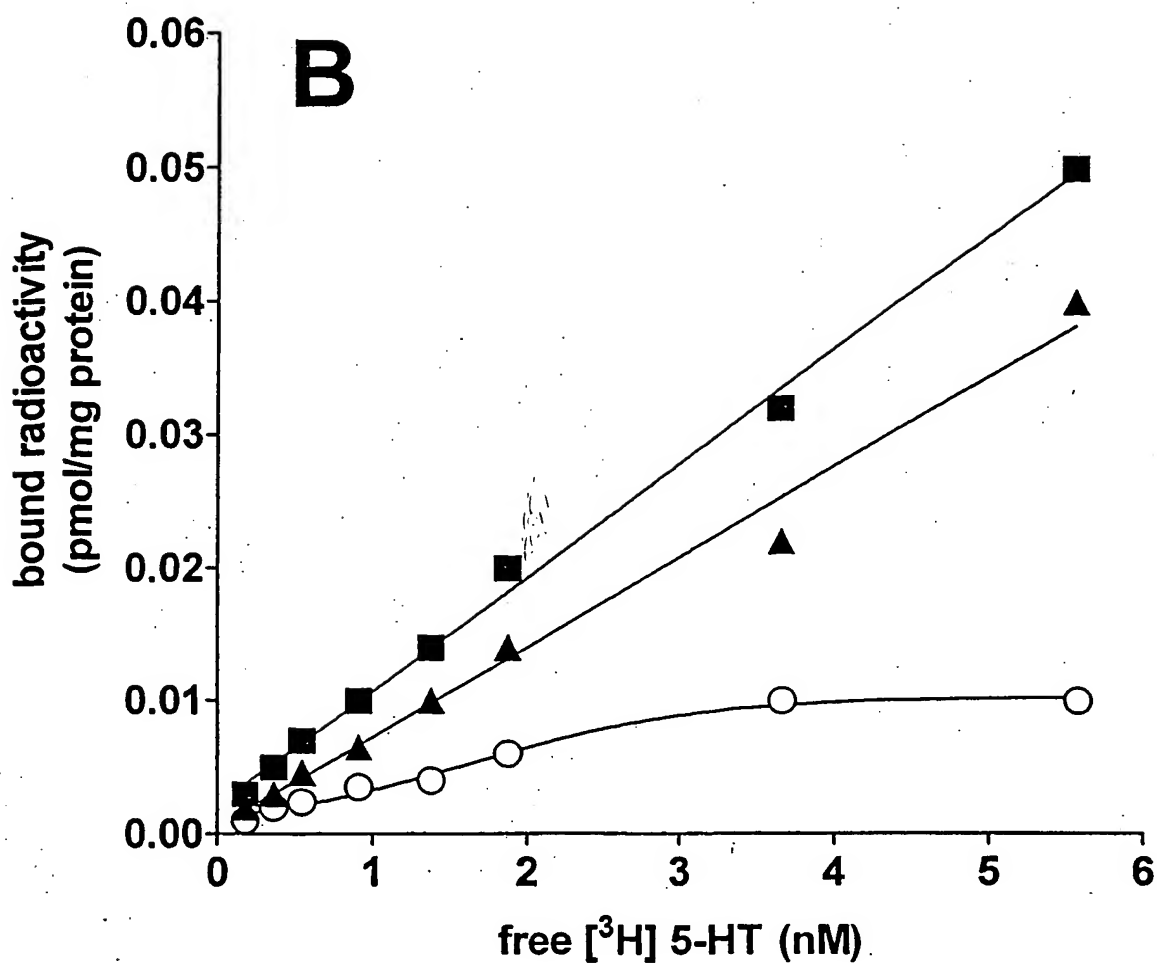


FIG. 4

Stimulation of AC through human 5-HT4h receptor in COS-7 cells

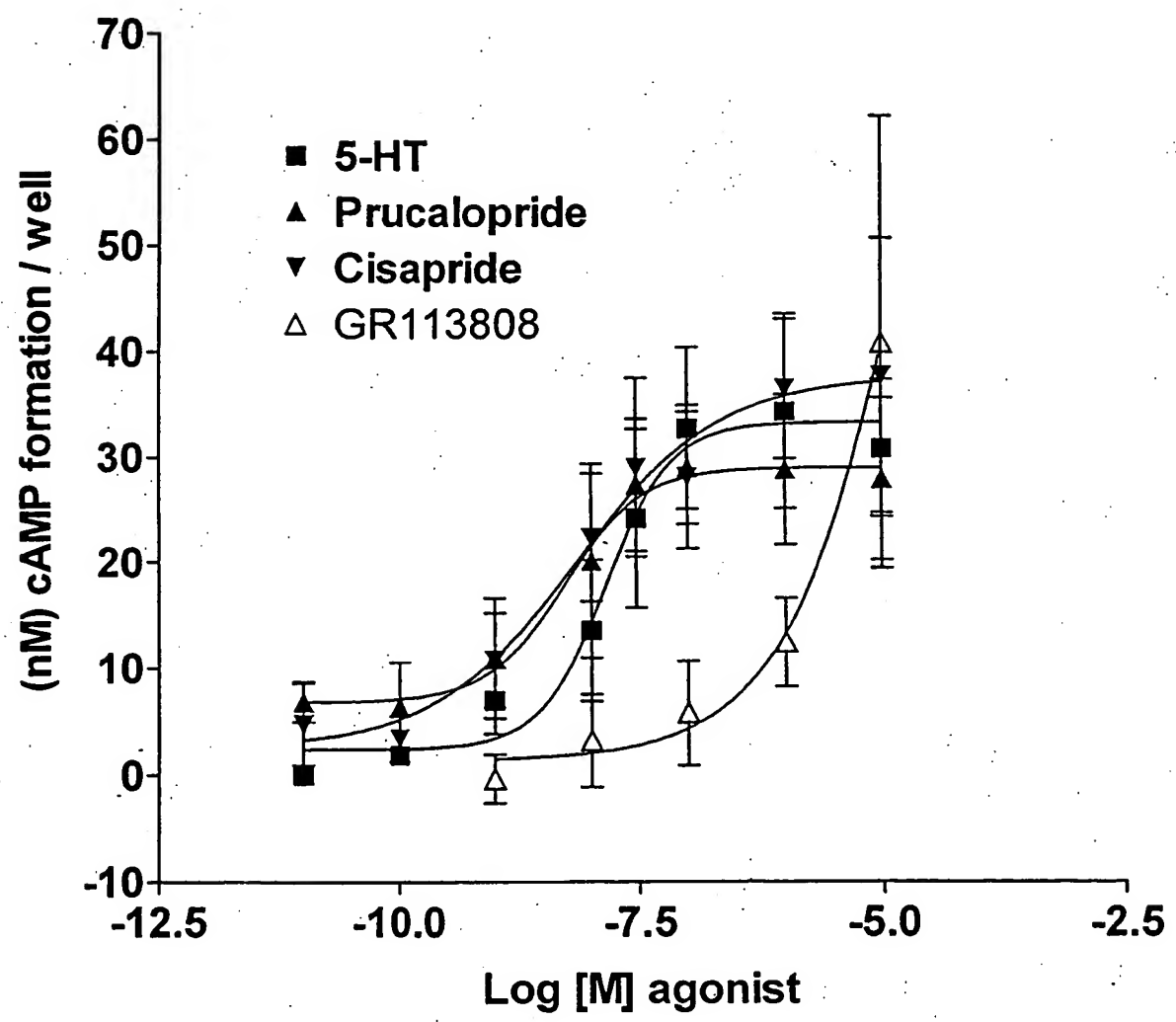


FIG. 5

Binding profile of the human 5-HT_{4(h)} COS-7 cells

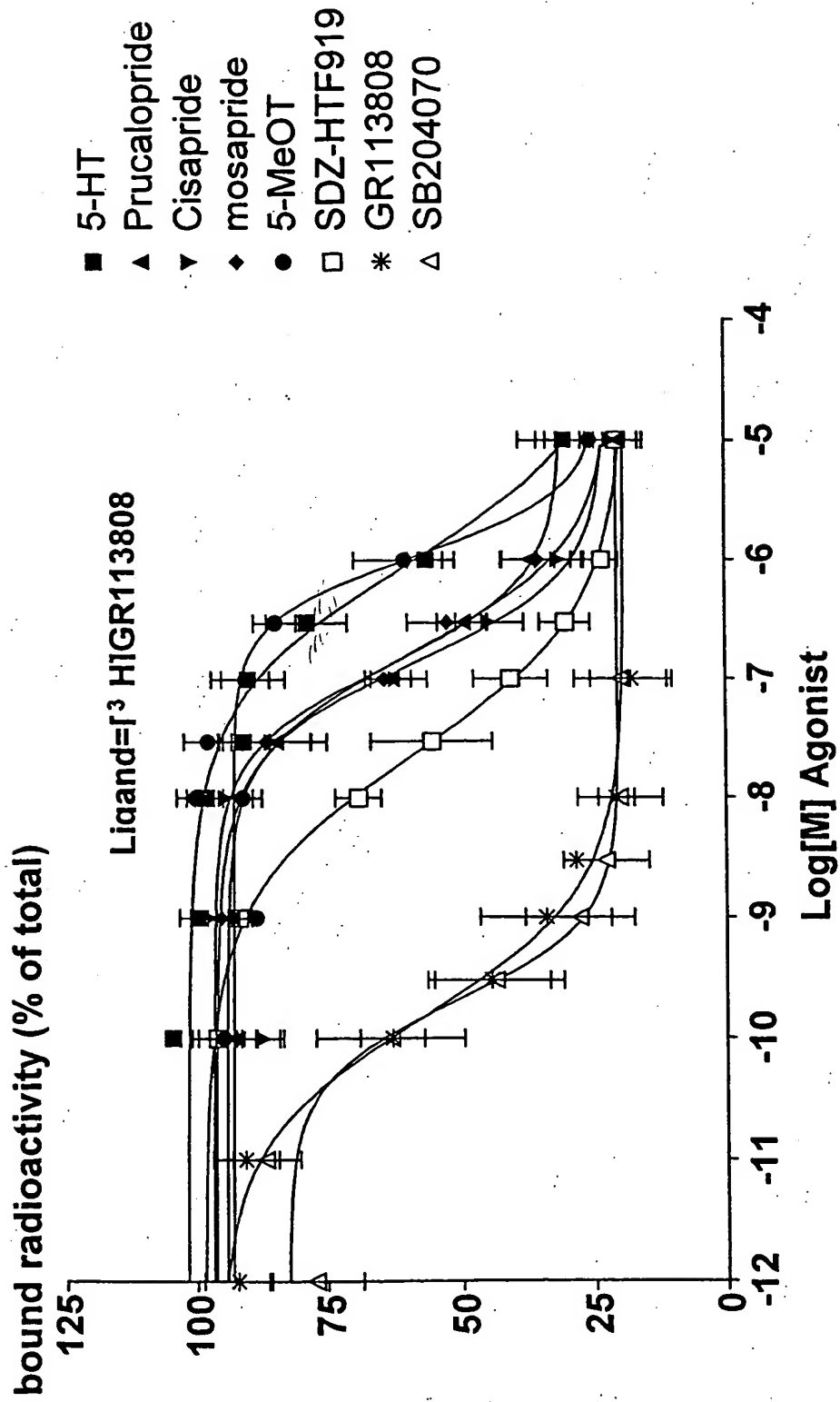


FIG. 6